

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P1066952

Luminaire Tested: **NAV-SA5D-722-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066952
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5D-722-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 5xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (70) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23359.1 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 269.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

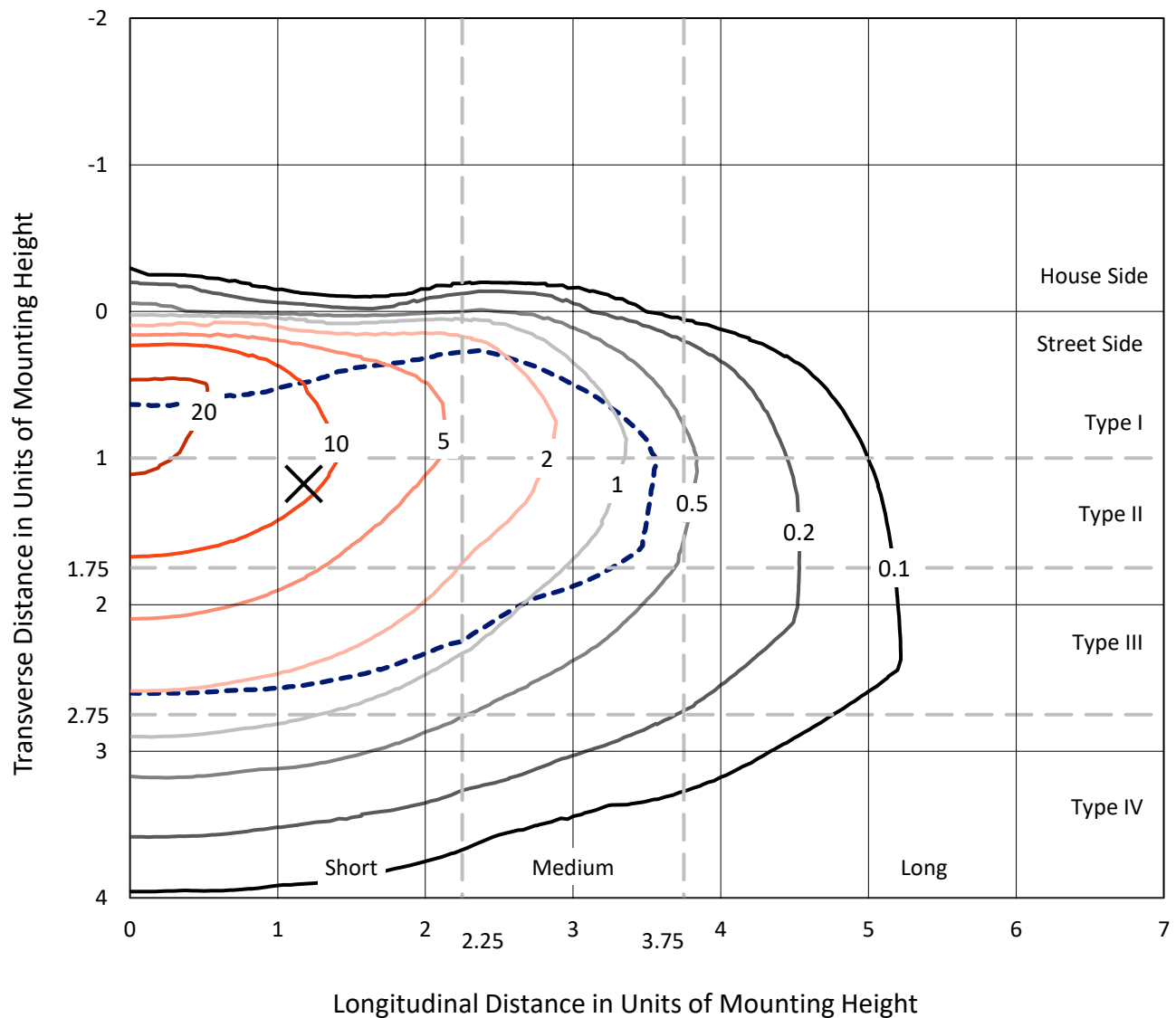


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

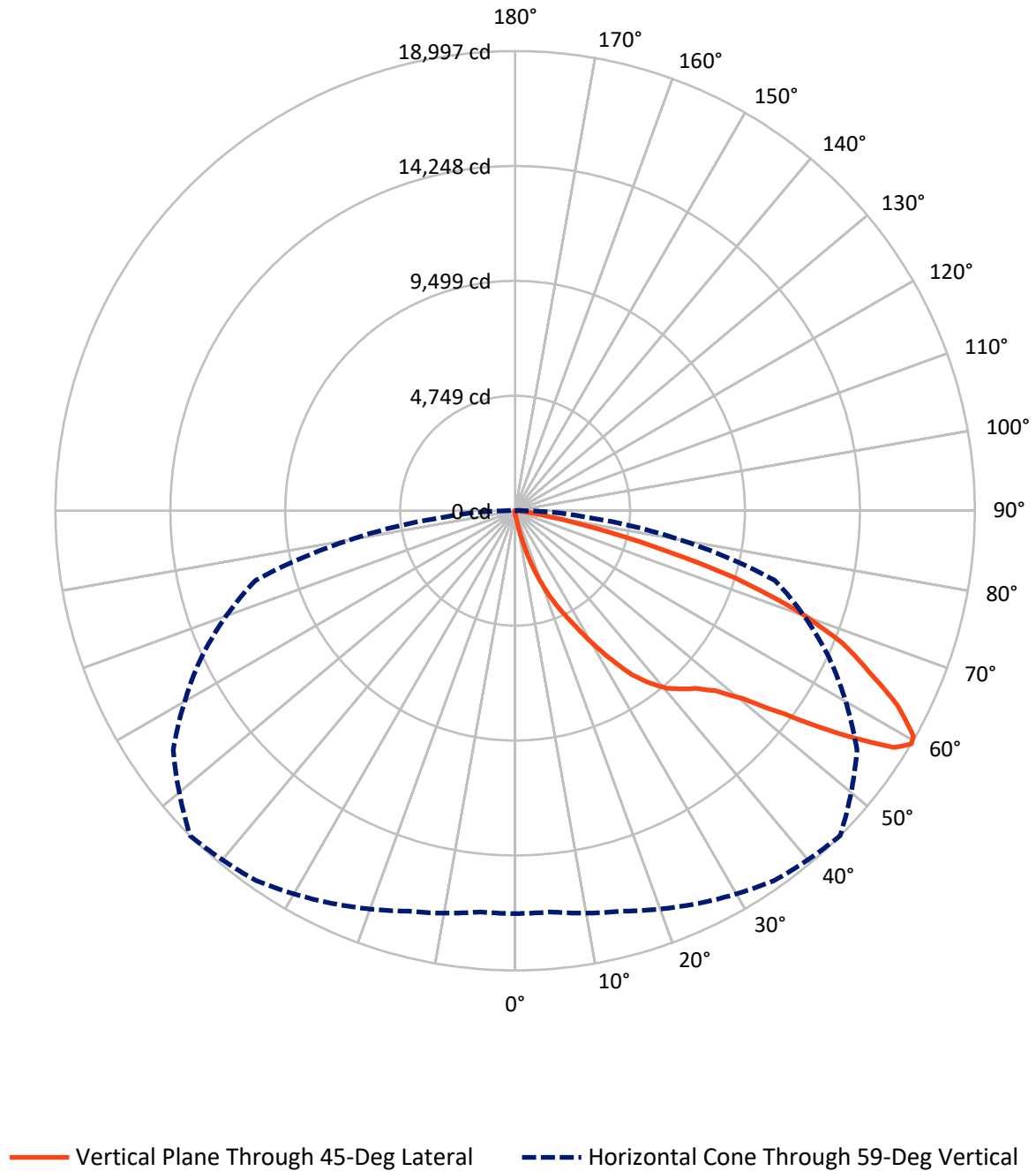


Based on 15 foot mounting height. Maximum calculated value = 25.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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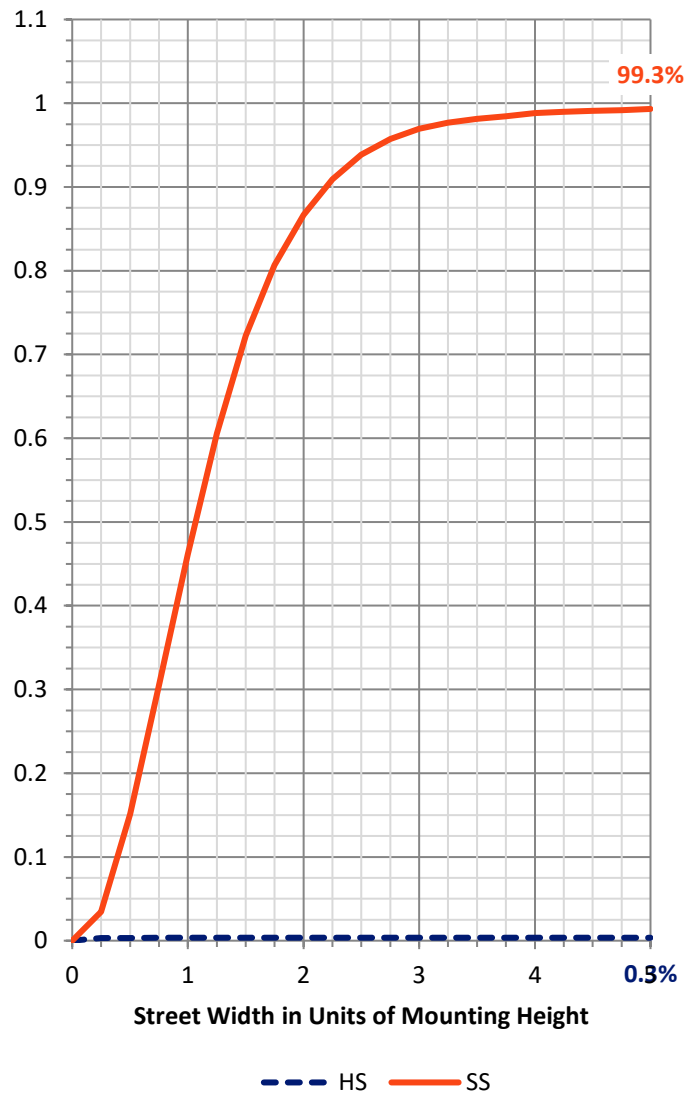
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	82.9	0.0	82.9
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	23276.2	0.0	23276.2
	% Fixture	99.6	0.0	99.6
Total	Lumens	23359.1	0.0	23359.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.1
10°-20°	258.2	1.1
20°-30°	927.7	4.0
30°-40°	2155.7	9.2
40°-50°	3674.3	15.7
50°-60°	6054.2	25.9
60°-70°	7000.0	30.0
70°-80°	3007.4	12.9
80°-90°	259.9	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23359.1	100.0
0°-180°	23359.1	100.0



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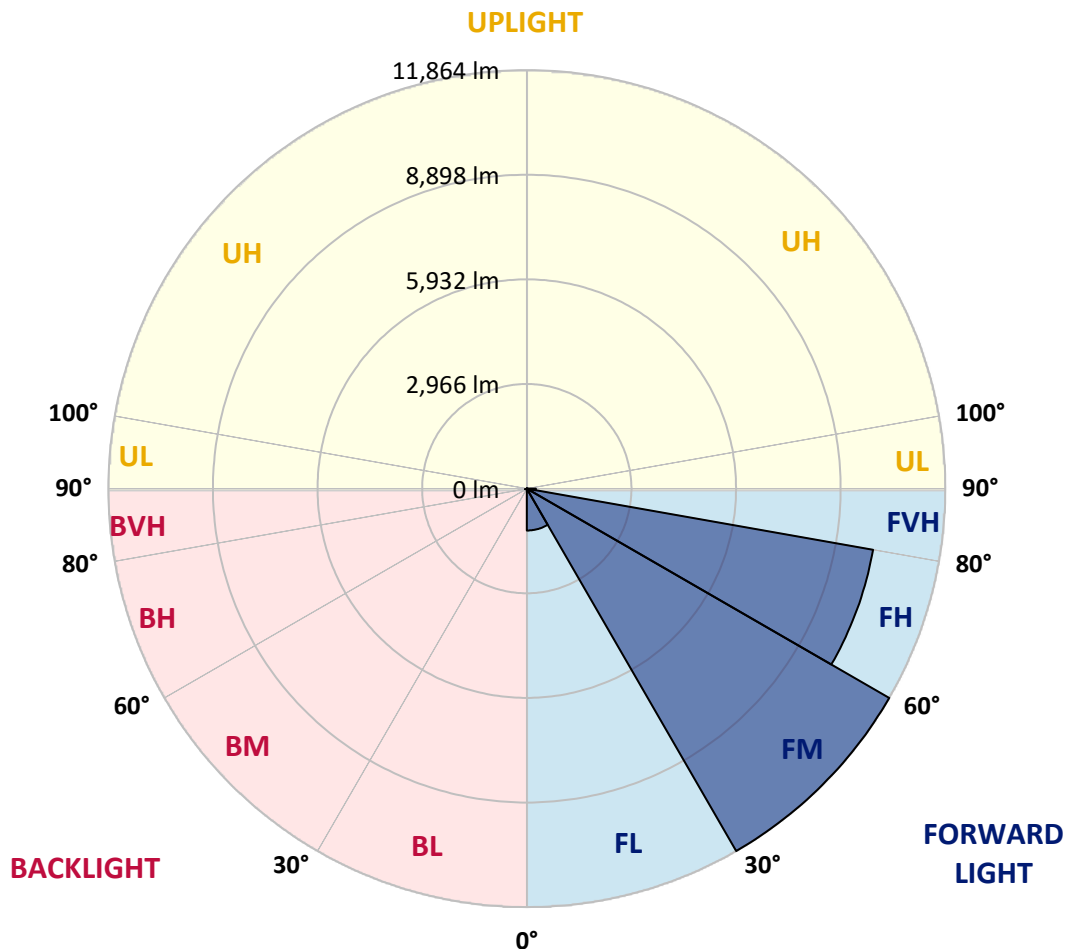
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1187.1	5.1			
FM	(30°-60°)	11864.1	50.8			
FH	(60°-80°)	9968.4	42.7			G4/12000
FVH	(80°-90°)	256.5	1.1			G3/500
BL	(0°-30°)	20.5	0.1	B0/110		
BM	(30°-60°)	20.1	0.1	B0/220		
BH	(60°-80°)	39.0	0.2	B0/110		G0/110
BVH	(80°-90°)	3.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6
2.5°	191.6	191.6	186.9	180.6	179.1	174.3	174.3	169.6	163.3	158.6	152.4
5°	278.0	276.4	263.9	248.2	227.7	215.2	215.2	197.9	182.2	168.1	155.5
7.5°	607.9	593.7	548.2	472.8	373.8	307.9	303.1	246.6	208.9	180.6	157.1
10°	1394.8	1346.1	1281.7	1101.0	813.6	568.6	557.6	359.7	249.7	194.8	160.2
12.5°	2285.3	2324.6	2195.8	1911.5	1575.4	1171.7	1093.2	606.3	329.8	213.6	163.3
15°	3095.8	3086.4	3014.1	2781.7	2393.7	1856.5	1807.8	1053.9	472.8	243.5	166.5
17.5°	3702.1	3691.1	3622.0	3472.8	3174.3	2637.2	2594.8	1680.6	741.4	285.9	169.6
20°	4341.3	4327.2	4229.8	4110.4	3849.7	3392.7	3342.4	2381.1	1160.7	355.0	169.6
22.5°	5107.8	5081.1	4977.5	4774.8	4500.0	4102.6	4057.0	3097.4	1680.6	468.1	177.5
25°	6034.5	5989.0	5846.0	5663.8	5332.4	4804.7	4756.0	3895.3	2307.3	639.3	185.3
27.5°	7091.6	7099.4	6906.2	6598.4	6153.9	5615.2	5524.1	4609.9	2956.0	884.3	194.8
30°	8346.6	8268.0	7996.3	7638.2	7206.2	6519.9	6431.9	5321.4	3684.8	1245.5	210.5
32.5°	9521.4	9436.6	9070.6	8619.8	8156.5	7432.4	7360.2	6120.9	4347.6	1672.8	238.7
35°	10529.8	10470.1	9958.1	9408.3	8996.8	8349.7	8327.7	7013.1	5126.7	2133.0	270.2
37.5°	11417.2	11308.8	10650.7	10080.6	9662.8	9083.2	9036.1	7829.8	5877.5	2667.0	317.3
40°	12174.3	12114.6	11312.0	10562.8	10223.5	9705.2	9645.5	8546.0	6653.4	3287.4	375.4
42.5°	12984.7	12906.2	12127.2	11286.8	10661.7	10107.3	10068.0	9136.6	7344.5	3969.1	461.8
45°	13900.4	13754.4	13071.1	12317.2	11367.0	10523.5	10479.5	9662.8	8052.8	4701.0	567.0
47.5°	14879.0	14751.8	14198.9	13669.6	12576.4	11209.9	11115.6	10110.4	8756.5	5546.0	700.5
50°	15874.8	15877.9	15463.3	15208.8	14054.4	12325.1	12191.6	10768.5	9496.3	6450.8	898.4
52.5°	17033.9	17063.8	17057.5	16869.0	15973.7	14148.6	13969.6	11767.5	10355.4	7506.2	1171.7
55°	17519.3	17572.7	17919.8	18337.6	18094.1	16460.6	16269.0	13490.5	11494.2	8682.7	1577.0
57.5°	17121.9	17181.6	17660.6	18392.6	18951.7	18485.2	18463.3	15733.4	12994.2	10108.8	2239.8
59°	16649.1	16641.3	17132.9	17908.8	18662.7	18965.9	18997.3	17250.7	14301.0	11109.4	2811.5
60°	16335.0	16341.3	16668.0	17464.3	18265.3	18791.5	18914.0	18144.4	15064.3	11828.7	3301.6
62.5°	15122.4	15194.7	15453.8	16193.6	16953.8	17541.3	17750.2	18940.7	17249.1	13528.2	5005.7
65°	13804.6	13809.3	14178.5	14811.4	15540.2	15953.3	16085.3	17701.5	18708.3	15259.1	7240.8
67.5°	11453.3	11549.2	11968.5	12994.2	13957.0	14480.0	14580.5	15408.3	18103.6	16386.8	8360.7
70°	8015.1	8140.8	8739.2	10069.6	11503.6	12362.8	12356.5	12808.8	15932.9	15884.2	7088.4
72.5°	4002.1	4218.8	4707.3	6131.9	7869.1	9218.3	9502.6	10303.6	12799.4	13193.6	5288.5
75°	1768.6	1781.1	2059.2	2776.9	3911.0	5624.6	5879.0	8178.5	9819.8	9169.6	3819.9
77.5°	1028.8	1038.2	1088.5	1247.1	1584.8	2756.5	3042.4	5363.8	6939.2	5329.3	2491.1
80°	373.8	383.2	381.7	472.8	694.2	1085.3	1209.4	2599.5	4628.8	2806.8	1305.2
82.5°	229.3	229.3	221.5	223.0	252.9	416.2	455.5	1107.3	2253.9	1382.2	373.8
85°	113.1	119.4	127.2	142.9	169.6	205.8	218.3	317.3	758.6	334.6	89.5
87.5°	67.5	69.1	75.4	91.1	113.1	147.6	157.1	215.2	271.7	224.6	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: NAV-SA5D-722-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6
2.5°	149.2	147.6	139.8	133.5	127.2	120.9	116.2	111.5	111.5	113.1	111.5
5°	149.2	142.9	130.4	119.4	109.9	102.1	94.2	88.0	86.4	86.4	88.0
7.5°	147.6	139.8	122.5	108.4	95.8	84.8	77.0	69.1	67.5	69.1	67.5
10°	146.1	136.6	116.2	99.0	81.7	70.7	59.7	51.8	51.8	51.8	53.4
12.5°	146.1	131.9	109.9	89.5	70.7	58.1	47.1	39.3	37.7	37.7	37.7
15°	144.5	128.8	103.7	78.5	59.7	44.0	34.6	26.7	26.7	26.7	26.7
17.5°	141.4	124.1	95.8	69.1	47.1	33.0	23.6	15.7	15.7	18.8	18.8
20°	138.2	119.4	86.4	56.5	39.3	25.1	15.7	9.4	9.4	14.1	15.7
22.5°	139.8	119.4	80.1	50.3	31.4	18.8	12.6	7.9	6.3	11.0	14.1
25°	141.4	116.2	72.3	44.0	23.6	14.1	9.4	3.1	1.6	3.1	4.7
27.5°	141.4	113.1	62.8	34.6	17.3	11.0	4.7	0.0	0.0	0.0	0.0
30°	139.8	108.4	55.0	28.3	12.6	6.3	1.6	0.0	0.0	0.0	0.0
32.5°	138.2	103.7	50.3	22.0	11.0	3.1	0.0	0.0	0.0	0.0	0.0
35°	139.8	97.4	44.0	17.3	6.3	0.0	0.0	0.0	0.0	0.0	3.1
37.5°	144.5	91.1	37.7	14.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	150.8	86.4	31.4	11.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	163.3	86.4	28.3	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	179.1	86.4	23.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	199.5	88.0	20.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	224.6	91.1	18.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	243.5	88.0	17.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	276.4	84.8	15.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	320.4	80.1	15.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	364.4	73.8	15.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	414.7	70.7	14.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	684.8	62.8	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1322.5	59.7	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2137.7	59.7	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2247.6	59.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1495.3	48.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	801.0	44.0	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	431.9	40.8	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	190.1	29.8	7.9	4.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	75.4	20.4	9.4	7.9	6.3	3.1	0.0	0.0	0.0	0.0	0.0
85°	36.1	15.7	12.6	11.0	7.9	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	15.7	14.1	12.6	11.0	7.9	1.6	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

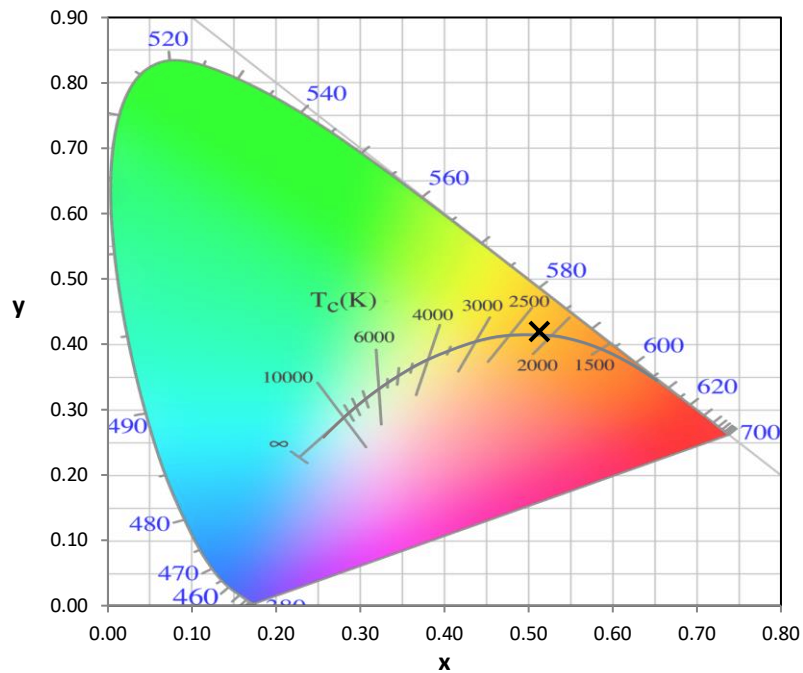
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.21

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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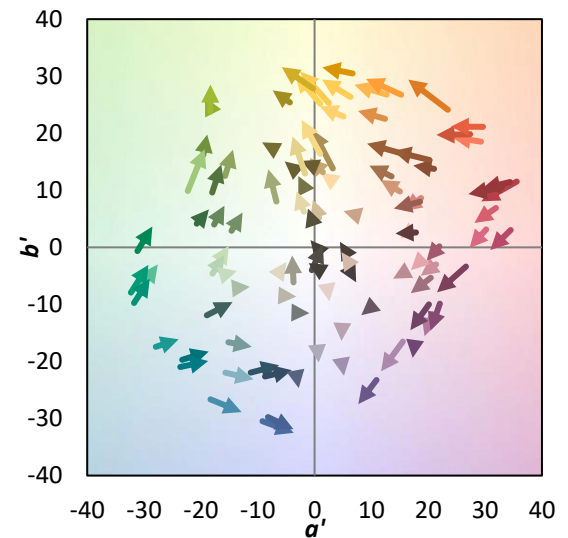
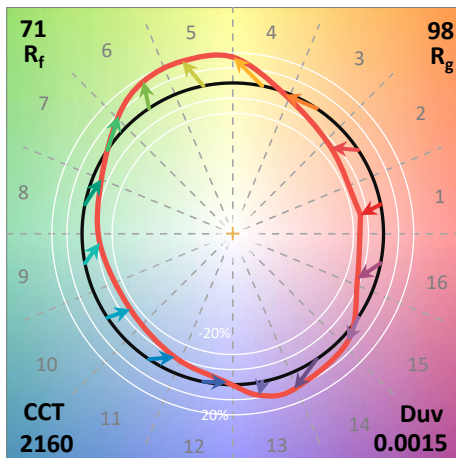
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE\ R_a = 71.9$
 $R_g = -17.8$



Color Vector Graphics

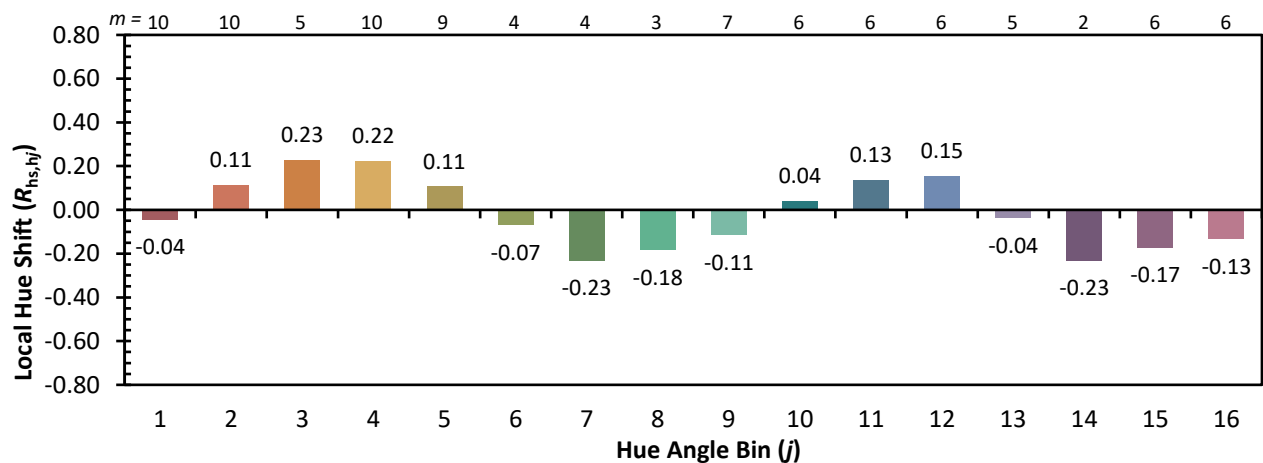
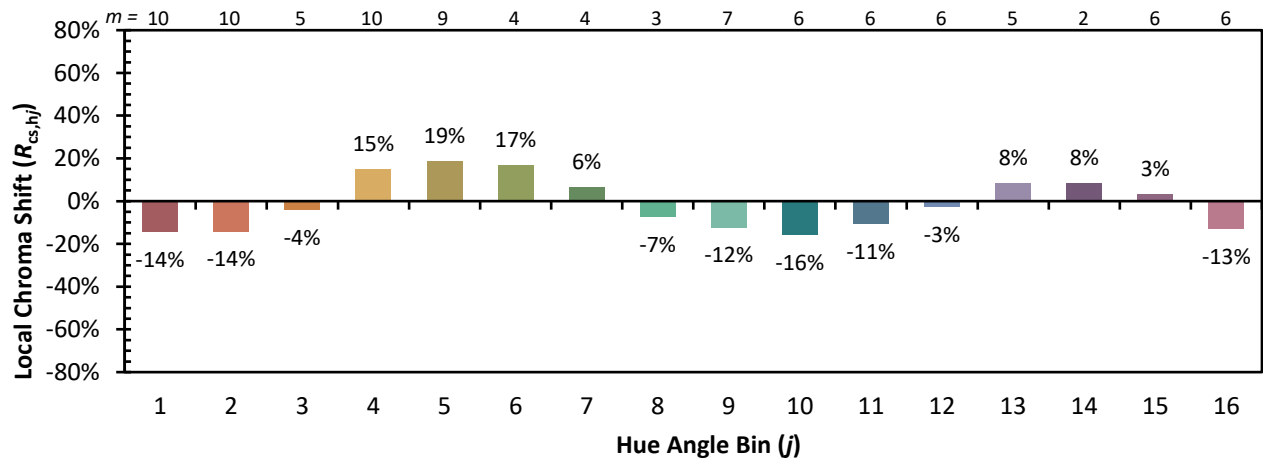


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)